FOR OFFICIAL USE ONL.....

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U.S. DEPARTMENT OF COMMERCE

SEARCH REQUEST FORM

Examiner # (Mandatory): Requester's Full Name:

Art Unit Location (Bldg/Room#): Phone (circle 305 306 308)

Serial Number: Results Format Preferred (circle): PAPER DISK E-MAIL

Title of Invention

Inventors (please provide full names):

Keywords (include any known synonyms registry numbers, explanation of initialisms):

Earliest Priority Date:

Search Topic:

Please write detailed statement of the search topic, and the concept of the invention. Describe as specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc., if known. You may include a copy of the abstract and the broadcast or most relevant claim(s).

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STAFF USE ONLY

Searcher: Anore	3 Type of Search	Vendors (include cost where applicable)
Searcher Phone #:	N.A. Sequence	STN
Searcher Location:	A.A. Sequence	Questel/Orbit
Date Picked Up:	Structure (#)	Lexis/Nexis
Date Completed: 5-6-9	Bibliographic	WWW/Internet
Clerical Prep Time: 25	Litigation 1 MP.	In-house sequence systems (list)
Terminal Time: 50	Fulltext	Dialog
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P97682 rattus norvo 982841 rattus norvo 982743 homo sapien 663404 rattus norvo 1162 homo sapien 643701 homo sapien 643705 homo sapien 67607 kenopus lae 624775 mus musculu 6757484 gallus gall 657484 gallus gall 657484 gallus gall 675795 homo sapien 705095 homo sapien 67605 gallus gall 67607 rattus norvo 105095 homo sapien 675095 homo sapien 67509707822 homo sapien 67509707822 homo sapien 675070 homo sapien 675070 homo sapien
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281.351 Million cell updates/sec
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GenCore version 4.5
Copyright (c) 1993 - 1998 Compugen Ltd.
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sp_virus:*
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024526 drosophila Q14564 homo sapien Q43663 triticum ae Q17494 caenorhabdi	P70505 rattus norv 060295 homo sapien 099940 homo sapien 000306 homo sapien 016364 caenorhabdi 046176 aedes aegyp 094528 drosophila	Q14808 homo sapien Q18805 caenorhabdi O60283 homo sapien Q10741 bos taurus
3 Q24526 2 Q14564 8 Q43663 3 Q17494	-	2 Q14808 3 Q18805 2 O60283 4 Q10741 ALIGNMENTS
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184 AA.

PRELIMINARY;

RESULT 2 P97682 ID P97682 AC P97682; N

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                                                                   RATTUS NORVEGICUS (RAT).
EURARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; RODENTIA;
SCIUROGNATHI; MURIDAE; MURINAE; RATTUS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 RGETCYRTVSGMDGMKCGPGLRCQPSNGEDPFGEEFGICKDCPYGTFGMDCRETCNCQSG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MKSVLLLTTLLVPAHLVAAWSNNYAVDCPQHCDSSECKSSPRCKRTVLDDCGCCRVCAAG 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15 HLV-AAWSNNYAVDCPQHC------52
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RODENTIA; SCIUROGNATHI; MURIDAE; MURINAE; RATTUS.
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                                                                                                                                                                                                                                                                                          Length 184;
                                                                                                                                                                                                                                                                                        Query Match 76.0%; Score 698; DB 10; Length 1 Best Local Similarity 74.1%; Pred. No. 4.4e-69; Matches 137; Conservative 24; Mismatches 22; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23; Indels
                                                                                                                                                             STRAIN-SPRAGUE DAWLEY; TISSUE-PINEAL GLAND;
WANG X., BROWNSTEIN M.J., YOUNG W.S.;
SUBMITTED (DEC-1996) TO EMBL/GENBANK/DDBJ DATA BANKS.
EMBL; U80818; G1750198; ---
SEQUENCE 184 AA; 20075 WW; 3457564C CRC32;
CREATED)
LAST SEQUENCE UPDATE)
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                                                                                                                                                                                                                                  184 AA; 20075 MW; 3457564C CRC32;
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STRAIN-SPRAGUE-DAWLEY; TISSUE-BRAIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CREATED)
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Matches 37; Conservative
 01-MAY-1997 (TREMBLREL.
01-MAY-1997 (TREMBLREL.
01-MAY-1997 (TREMBLREL.
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                                                                                                                           [1]
SEQUENCE FROM N.A.
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01-FEB-1997 (TREMBLREL. 02, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
NOVEL SERINE PROTEASE.
HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CLONE REM4) ORF (FRAGMENT).
RATTUS NORVEGIUGS (RAT).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; RODENTIA; SCIUROGNATHI; MURIDAE; MORINAE; RATTUS.
                             52 --GCCRVCAAGRGETCYRTVSGMDGMKCGPGLRCQPSNGEDPFGEEFGICK------ 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 VLLLTTLLVPAHLV-AAWSNNYAVDCPQHCDSSECKSSP-----RCKRTVLDDCGCCRV 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ASAKURA K., POGULIS R.J., PEASE L.R., RODRIGUEZ M.;
"A monoclonal autoantibody which promotes central nervous system remyelination is highly polyreactive to multiple known and novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE-FLACENTA;
MEDLINE; 97131593.
ZUMBRUNN J., TRUEB B.;
Primary structure of a putative serine protease specific for ICF-binding proteins.";
FEBS LETT. 398:187-192(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 480;
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01-NOV-1996 (TREMBLREL. 01, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13.5%; Score 123.5; DB 2; 34.0%; Pred. No. 5.8e-06; iive 18; Mismatches 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SERINE PROTEASE.
480 AA; 51286 MW; 175BB6D9 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      57 CAAGRGETCYRTVSGMDGMKCGPGLRCQPSNGEDPFG 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   101 ---- DCPYGTFGMDCRETCNCQSGICDRGTGKCL 130
                                                                                                                            220 AA.
                                                                                                                                                                                                                                                                                PRT;
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EMBL, 141686; 0780367; -.
PROSITE, PSO1186; EGE_2; 5.
PFAM; PF00008; EGE; 3.
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STRAIN-HOLZMAN; IISSUE-BRAIN;
MEDLINE; 96235155.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEBS LETT. 398.187-192(1996)
EMBL, Y07921, E275186; -
PFAM, PF000050, kazal; 1.
PFAM, PF000089; trypsin; 1.
PFAM, PF00519; IGFBP; 1.
PROMSESS; SERINE PROTEASE.
SEQUENCE 480 AA, 51286 MW
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Best Local Similarity 34.0%
Matches 33; Conservative
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                                                                                                                                                                                                                                                                                                              HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                   71 GMDGMKCGPGL---RCQPSNGEDPFGEEFGICKD-CPYGTFGMDCRETCNC-QSGICDRG 125
                                                                                                                                                 85 CHNGGACDAAIGQCHCSPGYIGER-----CQDECPVGIYGVRCAEICRCVNGGRCYHV 137
                                                                                             21 SNNYAVDCPQHCDSSECKSSPRCKRTVLDDCGC-----C-RVCAAGR-GETCYRTVS 70
                                                                                                          112 PGW---WGPECQQQCECVNGRCSAASGECTCPPGFRGARCELPCPAGSHGVQCAHSCGRC 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   86 SNG-------EDPFGEEFGICKDCPYGTFGMDCRETC-NCQSGICDRGTGKCL 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                322 DIGHCQRCDPGWLGPRCEDP------CPIGIFGEDCGSICPICVQGSCDIVIGDCV 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               269 KHN--EPCSPDTGSCESCEPGWNGTQCQQPCLPGTFGESCEQQCP----HCRHGEACEP 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             44 KRTVLDDC----GCCRVCAAGR-------GETCYRTVSGMDGMKCGPGLRCQP 85
                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE; 96127530.
MEDLINE; 96127530.

"Prediction of the coding sequences of unidentified human genes. The coding sequences of 40 new genes (KIAA0121-KIAA0160) deduced papalysis of cDNA clones from human cell line KG-1.";

EMBL; D63483: G1469880;

PROSITE; PS01186; EGF_2; 6.
                                                                                 26;
                                                               Length 220;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 830;
                                                                              40; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18 AAWSNNYAVDCPQHCD-----SSECKSSP-------
                                                                                                                                                                                                                                                                 CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
                                                          12.1%; Score 111; DB 10; 28.0%; Pred. No. 6.8e-05; tive 24; Mismatches 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12.4%; Score 113.5; DB 2; 24.4%; Pred. No. 0.00012; tive 17; Mismatches 32;
            1
220
23231 MW; 4389BC39 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      830 AA; 87460 MW; CC490A76 CRC32;
                                                                                                                                                                                                                                                 830 AA
                                                                                                                                                                                                                                                PRT;
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01,
08,
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06,
08,
                                                                              Conservative
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01-NOV-1996 (TREMBLREL.
01-NOV-1998 (TREMBLREL.
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043701;
01-JUN-1998 (TREMBLREL: 0
01-JUN-1998 (TREMBLREL: 0
01-NOV-1998 (TREMBLREL: 0
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(TREMBLREL.
          220 220 220 AA;
                                                                  Local Similarity
tes 35; Conserv
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Best Local Similarity
Matches 44; Conserv
                                                                                                                                                                                                                                                                                           KIAA0149 PROTEIN.
KIAA0149.
                                                                                                                                                                          126 TGKCL 130
                                                                                                                                                                                             138 SGTCL 142
GLYCOPROTEIN.
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SEQUENCE 83
        NON_TER
NON_TER
SEQUENCE
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Best Local S
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                                                                            Matches
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043701
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                     HOMO SAPIENS (HUMAN).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HOMO SAPIENS (HUMAN).
BUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   212 PGW---WGPECQQQCECVRGRCSAASGECTCPPGFRGARCELPCPAGSHGVQCAHSCGRC 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             86 SNG------BDPFGEEFGICKDCPYGTFGMDCRETC-NCQSGICDRGTGKCL 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             269 KHN--EPCSPDIGSCESCEPGWNGTQCQQPCLPGTFGESCEQQCP----HCRHGEACEP 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       322 DIGHCQRCDPGWLGPRCEDP------CPTGTFGEDCGSTCPTCVQGSCDTVTGDCV 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   44 KRIVLDDC----GCCRVCAAGR-------GETCYRTVSGMDGMKCGPGLRCQP 85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            59 AGRGETCYRTVSGMDGMKCGP--GLRCQPSNGEDPFGEEFGICKD-----CPYG---- 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             58 KQLNEDCSKTQP-----CDHTKGLECNFGASSTALK---GICRAQSEGRPCEYNSRIYQ 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 KSVLLLTTLLVPAHLVAAWSNNYAVDCPQHCDSSECKSSPRCKRT---VLDDCGCCRVCA 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 RALALVVILLHLTRLALS-----TCPAACHCP--LEAPKCAPGVGLVRDGCGCCKVCA 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        37;
                                                                                                   SEQUENCE FROM N.A.
MEDLINE; 98058897.
ADACHI H., TSUJIMOTO M., ARAI H., INOUE K.;
Expression cloning of a novel scavenger receptor from human adothelial cells.";
J. BIOL. CHEM. 272:31217-31220(1997).
EMBL: D86864; D1024977;
PROSITE: PSO1186; EGF_2; 6.
SIGNAL; GLYCOPROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 830;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MARTINERIE C., VIEGAS-PEQUIGNOT E., NGUYEN V.C., PERBAL J. CLIN. PATHOL. MOL. PATHOL. 50:130-136(1997).
J. CLIN. PATHOL. MOL. PATHOL. 50:130-136(1997).
BMBL: Y11307; E304665, ...
PROSITE: PS01185; CTCK_11; 1.
PROSITE: PS01185; CTCK_11; 1.
PROSITE: PS01208; VWPC; 1.
SEQUENCE 381 AA; 42025 MW; 1B18FF1A CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                           POTENTIAL.
ACETYL LDL RECEPTOR.
936CC3DD CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 12.4%; Score 113.5; DB 2; Best Local Similarity 24.4%; Pred. No. 0.00012; Matches 44; Conservative 17; Mismatches 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18 AAWSNNYAVDCPQHCD-----SSECKSSP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12.0%; Score 110.5; DB 2 26.1%; Pred. No. 0.00013; Ive 21; Mismatches 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   381 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CREATED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                      15 PO
830 AC
87430 MW;
ACETYL LDL RECEPTOR PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06,
06,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 26.18
Matches 36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JUN-1998 (TREMBLREL.
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                                                                                                                                                                                                                                                                                                                                                              SEQUENCE 830 AA;
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PFAM; PF00093; vwc; 1.
PFAM; PF00219; IGFBP; 1.
SEOUENCE 343 AA; 37966 MW; 4F7E7114 CRC32;
                                                                                                                                                                                                                                            106 -----TFGMDCRETCNCQSG 120
                                                                                                                                                                                                                                                               101 GTVYRSGESFQSSCKYQCTCIDG 123
                                                                                                                                                                                                                                                                                                                                                                      01,
08,
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08,
                                                                        Query Match
Best Local Similarity 27.3%
Matches 39; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 10.7
Best Local Similarity 25.4
Matches 32; Conservative
                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                    01-NOV-1996 (TREMBLREL.
01-NOV-1996 (TREMBLREL.
01-NOV-1998 (TREMBLREL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (TREMBLREL.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              054775;
01-JUN-1998 (TREMBLREL
01-JUN-1998 (TREMBLREL
01-NOV-1998 (TREMBLREL
ELM1.
ELM1.
MUS MUSCULUS (MOUSE).
                                                                                                                                                                                                                                                                                                                                                                                                                                        ENCHYTRAEUS BUCHHOLZI
                                                                                                                                                                                                                                                                                                                                                                                                             CYSTEINE-RICH-PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A. MEDLINE; 95014230.
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138 GPSCKCEKGD-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    126 -- TGKC 129
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   earthworm."
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Q24774
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                                                                                                                                                                                                                                     FISHER S.M., SLEMMON J.R., LIPSHUTZ D.B., BARTHOLOMEW V., TRILL J.G., RIEMMON J.R., LIPSHUTZ D.B., BARTHOLOMEW V., JAMES I.E., RIEMMAN D.J., GOWEN M., LEE J.C.;
"Identification and cloning of CTGF-L from human osteoblasts, a novel crystelne rich protein contenting an IGF binding domain.";
J. BONE MINER. RES. 13:0-0(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      654 CRVCAAGRGETCYRTVSGMDGMKCGPGLRCQPSNGEDP-----FGEEFGIC--KDCPY- 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JAN-1998 (TREMBLREL. 05, CREATED)
01-JAN-1998 (TREMBLREL. 05, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREE. 06, LAST ANNOTATION UPDATE)
CONNECTIVE TISSUE GROWTH FACTOR XCTGF.
SENOPUS LAEVIS (AFRICAN LEAWED FROG).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; AMPHIBIA; BATRACHIA; ANURA;
MESOBATRACHIA; PIPOIDEA; PIPIDAE; XENOPODINAE; XENOPUS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 KSVLLLTTLL-----VPAHLVAAWSNNYAVDCPQHCDSSECKSSPRCK---RTVLDDCGC 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

*CT58, a new member of the connective tissue growth factor family, interacts with the breast cancer associated mucin MUC1."; SUBBLITTED (JUN-1980) TO EMBL/GENBANK/DDBJ DATA BANKS.

EMBL; AF083500; G3462286; ...

EMBL; AF074604; G3328192; ...

PROSITE; PS00222; IGF_BINDING; 1.

**TOTTOWNER** 250 AA; 26825 MW; 61CE7682 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        36;
                                                                                                                                                                  HOMO SAPIENS (HUMAN).
EUKARKOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA;
PRIMATES; CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11.9%; Score 109; DB 2; Length 250; 30.4%; Pred. No. 0.00013; Live 16; Mismatches 44; Indels
                                                                                                               01-NOV-1998 (TREMBLREL. 08, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
CONNECTIVE TISSUE GROWTH FACTOR-LIKE PROTEIN PRECURSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L11

L12

YING Z., KING M.L.;

SUBMITIED (MOL1997) TO EMBL/GENBANK/DDBJ DATA BANKS.

EMBL; U43524; G2342756; -..

PROSITE; PSO1185; CTCK_1.

PROSITE; PSO1208; VWFC; 1.

PROSITE; PSO1208; VWFC; 1.

PROSITE; PSO1208; LADL; 1.
                                                                        250 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              343 AA
                                                                                                  CREATED)
                                                                        PRT;
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                                                                                                  08,
 109 NGESFQPNCKHQCTCIDG 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               105 -- GTFGMDCRETCNCQSG 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 30.49
Matches 42; Conservative
                                                                       PRELIMINARY;
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                                                                                                            01-NOV-1998 (TREMBLREL. 01-NOV-1998 (TREMBLREL.
                                                                                                 01-NOV-1998 (TREMBLREL.
                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                     076076
076076;
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042607
AC 042607
DT 042607
DT 01-JAN
DT 01-JAN
DT 01-JAN
DE CONNEC
OC EURARY
OC WESOBAR
RN (1)
RN (1)
RN SEUBHIT
DR EMBL; I
DR EMBL; I
DR PROSITI
DR PROSITI
DR PROSITI
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                                           RESULT
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                                                                                                                                                                                                                                    55 SKOLGELCTERDV-----CDPHKGLFCD-----FGSRVNRKIGVCTAREGAPCVFG 100
                                                   Gaps
                                                                                                                                                                                          58 AAGRGETCY-RTVSGMDGMKCGP--GLRCQPSNGEDPFGE----EFGICKD-----CPYG 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    78 GPGLRCQPSNGEDPFGEEFGICK-DCP-----YGTFGMDCRETCNCQSGICDRG---- 126
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WILLUHN J., SCHMITT-WREDE H.P., GREVEN H., WUNDERLICH F.; "CDNA cloning of a cadmium-inducible mRNA encoding a novel cysteine-rich, non-metallothionein 25-kDa protein in an enchytraeid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EUKARYOTA; METAZOA; ANNELIDA; CLITELLATA; OLIGOCHAETA; HAPLOTAXIDA;
TUBIFICINA; ENCHYTRAEIDAE; ENCHYTRAEUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32 CDSSECK-----SSPRCKRIVLDDCGCCRVCAAGRGE-----TCYRIVSGMDGMKC
                                                   48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               42;
  Length 343;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10.7%; Score 98; DB 3; Length 251; 25.4%; Pred. No. 0.002; tive 18; Mismatches 34; Indels
                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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LAST ANNOTATION UPDATE)
10.9%; Score 100; DB 12; 27.3%; Pred. No. 0.0016; ive 18; Mismatches 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      J. BIOL. CHEM. 269:24688-24691(1994).
EMBL: X79344; G488803; -.
SEQUENCE 251 AA; 25000 MW; 85747E80 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       251 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                367 AA
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TISSUE-BRAIN 015230 015230; 66 15 g ò g å ద ò 셤 RC STRAINSHER;
RA HABLINE; 98119979.
RA HABLINGTO Y., SHINDO-OKADA N., TANI M., NAGAMACHI Y., TAKEUCHI K.,
RT HABLINGTO Y., TOMA H., YOKOTA J.;
RT STRESSION Of the Elml gene, a novel gene of the CCN (connective
RT tissue growth factor, Cyrfollo, and neuroblastoma overexpressed
RT gene) family, suppresses in vivo tumor growth and metastasis of K-1735
RL D. EXP. MED. 187:289-296(1998).
BREL: AB004873; D1025874;
DR EWBL: AB004873; D1025874;
RC SEQUENCE 367 AA; 40702 MW; IAB35AB9 CRC32; 10; ä EURARYOTA; METAZOA; CHORDATA; VERTEBRATA; MANCIALIA; GATHURIA, GONHAPIA, Gaps 82 RCOPSNGEDPFGEEFGICKD-----C----PY---GIFGMDGRETCNCQSGI--CDRGT 126 BRACHYDANIO REKIO (ZEBRAFISH) (ZEBRA DANIO). EUKARYOTA: METAZOA; CHORDATA; VERTEBRAȚA; ACTINOPTERYGII; NEOPTERYGII; TELEOSTEI; EUTELEOSTEI: OSTARIOPHYSI; CYPRINIFORMES; CYPRINOIDEA; CYPRINIDAE: RASBORINAE; DANIO. 27 DCPQHCDSSECKSSPRCK---RTVLDDCGCCRVCAAGRGETCYRTVSGMDGMKCGP--GL 81 66 YRTVSGMDGMKCGPG----- 100 256 ------DIVCGEGRFGAGCKERCVDGVCRALVFCLR------DPYG-----CSCASG 295 Gaps 7 LITLLVPAHLVAAWSNNYAVDCPQHCDSSECKSSPRCKRIVLDDCGCCRVCAAG-RGEIC 65 39; Length 367; 65; 10.7%; Score 98.5; DB 12; Length 1116; 23.7%; Pred. No. 0.0066; tive 18; Mismatches 33; Indels 65; 10.6%; Score 97.5; DB 10; Length 3 28.2%; Pred. No. 0.0032; tive 15; Mismatches 35; Indels 01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE) 01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE) ENDOTHELIUM-SPECIFIC RECEPTOR TYROSINE KINASE TIE-2. SEQUENCE FROM N.A.
LYONS M.S., BELL B., STAINIER D., PETERS K.G.;
DEV. DYN. 0:0-0(1998).
EMBL; AF053632; G3005607; -.
SEQUENCE 1116 AA: 122361 MW; 7E60F6C5 CRC32; PRT; 1116 AA 296 WRGLSCNDACPDGYYGAGCTQKCVCAKGRCDR 327 100 -----KDCPYGTFGMDCRETCNCQSGICDR 124 01-AUG-1998 (TREMBLREL. 07, CREATED) 01-AUG-1998 (TREMBLREL. 07, LAST SEO 01-AUG-1998 (TREMBLREL. 07, LAST ANN Conservative PRELIMINARY; 36; Conservative Query Match Best Local Similarity Best Local Similarity 127 GKCL 130 155 PLCL 158 Query Match 073791; 073791 RESULT 13 073791 Matches . ð 셤 ð đ g ò SO SO SO SE LA LIBERTA DE LA L õ 쉽 ò g ò

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EURARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    939 YQDGRSRQVVCHCSPGYIGPRCDECAPGYYGDPLQPGGHCR-PCQCHNNLDITDPEACDR 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63 E----TCYRTVSGMDGMKC-------GPGLRCQPSN-GEDPFGE-EFGI-- 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE; 98290545.
NAGASE T., ISHIKAWA K., MIYAJIMA N., TANAKA A., KOTANI H., NOMURA N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29 POHCDSSECKS----SPRCKRIVLDDCGC------CRVCA-AGRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Prediction of the coding sequences of unidentified human genes. IX. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro.";
DNA RES. 5:31-39(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ------CKDCPYGTF-----GMDCRETCNCQSGI------CDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    86;
POST CONTROL OF CONTRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.6%; Score 97; DB 12; Length 1792; 23.0%; Pred. No. 0.015; tive 22; Mismatches 36; Indels 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
LIU J., SWASDISON S., XIE W., BREWTON R.G., MAYNE R.;
LIU J., SWASDISON S., XIE W., BREWTON R.G., MAYNE R.;
EMBL; AFOSSES; G2708707; --
PROSITE; PS01186; EGF_2; 2.
PROSITE; PS01248; LAMININ_TYPE_EGF; 12.
SEQUENCE 1792 AA; 195722 MW. APPROPERTY
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01-NOV-1998 (TREMBLREL. 08, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST SEQUENCE UPDATE)
KIAAO533 PROTEIN (LAMININ ALPHA 5 CHAIN) (FRAGMENT)
HOMO SAPIENS (HUMAN).
                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
MEDLINE; 93015947.
O'REAR J.J.;
A novel laminin Bl chain variant in avian eye.
J. BIOL. CHEM. 267:20555-20557(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1792 AA; 195722 MW; AFFC9020 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT; 1645 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match
Best Local Similarity 23.0%
Matches 43; Conservative
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[2] SEQUENCE OF 693-1645 FROM N.A.

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C TISSUE=PLACENTA;

WEDLINE; 97415425.

WEDLINE; 97415425.

WEDLINE; 97415425.

WEDLINE; 97415425.

WEDLINE; 97415426.

WERER U.M.;

"Tissue-specific expression of the human laminin alpha5-chain, and ampping of the gene to human chromosome 20q13.2-13.3 and to distal frouse chromosome 2 near the locus for the ragged (Ra) mutation."; FEBS LETT. 411:296-300(1997).

REMBL; 205636: E317479; -...

PERMI: PFOMO54; laminin_G; 2.

FT NOW_TER 1

NOW_TER 1545 AA; 178215 MW; A44DE58F CRC32;
                                                                                                                                                                                                                                                                                                                            48 LDDCGCCRVCAAGRGETCYRIVSGMDGMKCGP---GLRCQPSNGE----DPFGEEFGIC 99
                                                                                                                                                                                                                                                                                                                                                 Query Match 10.5%; Score 96.5; DB 2; Length 1645; Best Local Similarity 30.1%; Pred, No. 0.015; Matches 28; Conservative 12; Mismatches 20; Indels 33;
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